

Report Date: 27 Mar 2015
Summary Report for Crew Drill Drill Task
Drill Number: 07-4-D9318
Drill Title: Lay 120mm Mortar for Large Deflection Change
Status: Approved
Status Date: 27 Mar 2015

Distribution Restriction: Approved for public release; distribution is unlimited.

Destruction Notice: None

Foreign Disclosure: FD6 - This product/publication has been reviewed by the product developers in coordination with the MCoE G-2 foreign disclosure authority. This product is releasable to students from foreign countries on a case-by-case basis.

Drill Data

Proponent: 07 - Infantry (Collective)

Drill Type: Crew Drill

Approved:

Obsolete:

Restricted Read: No

Route To TMD Reviewer: No

TMD Concurrence:

TMD Comments:

Safety Level: Low

Conditions:

The unit is conducting operations as part of a higher headquarters and receives a fire command requiring a deflection change of more than 200 mils but less than 300 mils and an elevation change of more than 100 mils but less than 200 mils. Some iterations of this task should be performed in MOPP 4.

Standards:

The squad leader announces the given deflection and elevation to be indexed without error. The mortar squad conducts the lay IAW FM 3-22.90 and the unit standard operating procedures (SOP).

Drill Statements:

DANGER	
NONE	
WARNING	
NONE	
CAUTION	
NONE	

Safety: In a training environment, leaders must perform a risk assessment in accordance with ATP 5-19, Risk Management. Leaders will complete the current Deliberate Risk Assessment Worksheet in accordance with the TRADOC Safety Officer during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW FM 3-11.4, Multiservice Tactics, Techniques, and Procedures for Nuclear, Biological, and Chemical (NBC) Protection, FM 3-11.5, Multiservice Tactics, Techniques, and Procedures for Chemical, Biological, Radiological, and Nuclear Decontamination. .

Environment: Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects. Refer to FM 3-34.5 Environmental Considerations and GTA 05-08-002 ENVIRONMENTAL-RELATED RISK ASSESSMENT. .

Cue: This drill begins on the command of the squad leader.

Coaching Point: NONE

TASK STEPS

1. The gunner receives a deflection and elevation change in the form of an initial fire command.

Note: All elements of the fire command are repeated by the gunner.

2. Gunner places the data on the sight and elevates or depresses the mortar to float the elevation bubble.

3. The assistant gunner positions himself in front of bipod and lifts the bipod by squatting slightly with legs spread shoulder width and supporting his elbows on his knees while grabbing the bipod legs and lifting them until the bipod clears the ground.

4. The gunner moves the mortar by placing his right hand over the buffer housing assembly, his left hand on the bipod leg pushing or pulling the bipod in the desired direction until the vertical crossline is within 20 mils of the aiming posts.

5. Gunner directs the assistant gunner to lower the bipod.

6. Gunner floats his deflection bubble.

7. The gunner levels mortar for elevation.

8. Gunner verifies that the vertical crossline of the sight is still within 20 mils of the aiming posts. If vertical crossline is not within 20 mils of the aiming posts, gunner re-centers the traversing bearing and re-lays the weapon on the aiming posts.

9. Gunner takes up a proper sight picture by traversing half the distance to the aiming posts and cross-leveling, maintaining levels on all bubbles.

10. The assistant gunner ensures the gunner stays within four turns from center-of-traverse.

a. Observes the gunner's traversing to ensure that he stays within four turns from center-of-traverse.

b. If the gunner has traversed more than four turns from center-of-traverse, the assistant gunner advises the gunner and instructs the gunner to center back up. The gunner and assistant gunner then shift the bipod again and repeat the steps for laying the mortar.

11. The gunner makes minor adjustments as necessary. He does a final check of the bubbles and center-of-traverse, and announces "UP."

(Asterisks indicates a leader performance step.)

TASK MEASURES

1. The gunner received a deflection and elevation change.
 2. Gunner placed the data on the sight and elevated or depressed the mortar.
 3. The assistant gunner positioned himself in front of bipod and lifted the bipod by squatting slightly with legs spreaded shoulder width.
 4. The gunner moved the mortar by placing his right hand over the buffer housing assembly.
 5. Gunner directed the assistant gunner to lower the bipod.
 6. Gunner floated the deflection bubble.
 7. The gunner leveled mortar for elevation.
 8. Gunner verified that the vertical crossline of the sight was still within 20 mils of the aiming posts.
 9. Gunner took up a proper sight picture.
 10. The assistant gunner ensured the gunner stayed within four turns from center-of-traverse.
 11. The gunner made minor adjustments as necessary.
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Talk:

a.Orientation: The objective of this squad drill is to provide the squad with basic skills necessary to execute a fire mission with large changes in deflection and elevation.

b.Safety: The squad members must use proper lifting techniques when handling the 120-mm mortar components.

c.Demonstration: If another squad has successfully performed this drill, have that squad demonstrate it. During the demonstration, explain what is being done and why, using the performance measures as a guide. After the demonstration, summarize the actions performed by the demonstrating squad.

d.Explanation: (1) Refer to the performance measures and explain what the squad leader, gunner, and assistant gunner is required to do upon hearing the initial fire command.
(2) Ensure that the squad leader and members know their duties and responsibilities pertaining to each portion of the drill.
(3) Ask if there are any questions pertaining to the drill. If so, ensure that all questions are correctly answered before beginning to train the drill.

e.Unit Instructions: a. Resources. Table(s) of organization and equipment (TOE) assigned personnel and equipment to include combat medic.

b. Training Site: A mortar firing range or training area with sufficient mask and overhead clearance.

c. Unit Instructions. Squad receives a fire mission that requires a large change in deflection (200 - 300 mils) and elevation (100 - 200 mils).

Walk:

1. Refer to the performance measures and have each squad member perform his part slowly at first as the leader talks him through.
 2. NONE
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Run:

a.Run-Through Instructions: The soldiers should practice this drill until they can perform it according to standard, without using notes. The initial run-through exercise should be conducted slowly. The soldiers should change positions in order to learn all steps and standards.

b.Coaching Point: NONE

c.Performance Instructions: When the soldiers can perform this drill according to the standard, they should be evaluated by the platoon leader or sergeant.

Equipment (LIN)

Step ID	LIN	Nomenclature	Qty
No equipment specified			

Materiel Items (NSN)

Step ID	NSN	LIN	Title	Qty
No materiel items specified				

Support Personnel

Personnel Type	Description	School	Qty	Remarks
No support personnel specified				

TADSS

Step ID	TADSS ID	Title	Product Type	Qty
	DVC-VBS2	VIRTUAL BATTLESPACE 2 (Local TADSS – Not in TSMATS/PAM 25-30)	DVC	1
	07-13A	Mortar, Pneumatic/ M32	DVC	1
	07-13B	Pneumatic Mortar Trainer/ M32A1	DVC	1

Supporting Individual Tasks

Step ID	Task ID	Status	Task Title
	071-11C-0200	Approved	Maintain a 120-mm Mortar
	071-11C-0201	Approved	Perform Safety Checks on a 120-mm Mortar
	071-11C-0202	Approved	Lay a 120-mm Mortar for Deflection and Elevation
	071-11C-1000	Approved	Fire a Mortar
	071-11C-1001	Approved	Engage Targets with a 60-mm, 81-mm, or 120-mm Mortar Using Direct Lay

Prerequisite Individual Tasks

Step ID	Task ID	Status	Task Title
No prerequisite individual tasks specified			

Supporting Collective Tasks

Step ID	Task ID	Status	Title
	07-3-3054	Approved	Fire a Mortar Adjust Fire Mission (Section-Platoon)
	07-3-3072	Approved	Fire a Mortar Fire for Effect Mission (Section-Platoon)
	07-3-3099	Approved	Fire a Mortar Priority Target Mission (Section-Platoon)

Prerequisite Collective Tasks

Step ID	Task ID	Status	Title
No prerequisite collective tasks specified			

Supporting Drill Tasks

Step ID	Drill ID	Status	Drill Title
	07-4-D9339	Approved	Fire a Mortar

OPFOR

Task Number	Title	Status
71-0-0014	Disruption	Approved

REFERENCES

Step Number	Reference ID	Reference Name	Required	Primary
	ATTP 3-21.90	Tactical Employment of Mortars	Yes	No
	FM 3-22.90	Mortars	Yes	Yes

Training Setup

A mortar firing range or training area with sufficient mask and overhead clearance.

Training Facilities

Facility ID	Facility Name	Facility Type
No Training Facilities		

DODIC

DODIC	Name	Qty
No DODIC		

Associated Documents

Media ID	Media Type	Title	Subtitle
No Associated Documents			

GLOSSARY TERMS

Glossary Term	Definition
No glossary terms specified	

ACRONYMS AND ABBREVIATIONS

Acronym/Abbreviation	Definition
No acronyms/abbreviations specified	